

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/517,600  
Source: PG/10  
Date Processed by STIC: 8/12/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

## Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>10/517,600</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor <b>after</b> creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line <b>not exceed</b> 72 characters in length. This includes white spaces.	
3 <u>✓</u> _____ Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do <b>not</b> use tab codes between numbers; use <b>space characters</b> , instead.	
4 _____ Non-ASCII	The submitted file was <b>not</b> saved in ASCII(DOS) text, as <b>required</b> by the Sequence Rules. Please <b>ensure your subsequent submission is saved in ASCII text</b> .	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. <b>Per Sequence Rules, each n or Xaa can only represent a single residue.</b> Please present the <b>maximum</b> number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. <b>This applies to the mandatory &lt;220&gt;-&lt;223&gt; sections for Artificial or Unknown sequences.</b>	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for <b>each</b> skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to <b>include</b> the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If <b>intentional</b> , please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is <b>MANDATORY</b> if n's or Xaa's are present. In <220> to <223> section, please explain location of <b>n</b> or <b>Xaa</b> , and which residue <b>n</b> or <b>Xaa</b> represents.	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only <b>valid</b> <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is <b>required</b> when <213> response is Unknown or is Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is <b>MANDATORY</b> if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n/Xaa	<b>"n" can only represent a single <u>nucleotide</u>; "Xaa" can only represent a single <u>amino acid</u></b>	



PCT

## RAW SEQUENCE LISTING

DATE: 08/12/2005

PATENT APPLICATION: US/10/517,600

TIME: 14:48:39

Input Set : A:\2005-06-22 - Sequence Listing.txt

Output Set: N:\CRF4\08122005\J517600.raw

3 <110> APPLICANT: Haruo Sugiyama  
 4 Chugai Seiyaku Kabushiki Kaisha  
 5 Sumitomo Pharmaceuticals Company, Limited  
 7 <120> TITLE OF INVENTION: HLA-A24-RESTRICTED CANCER ANTIGEN PEPTIDES  
 9 <130> FILE REFERENCE: 540883HT  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/517,600  
 C--> 12 <141> CURRENT FILING DATE: 2004-12-13  
 14 <150> PRIOR APPLICATION NUMBER: JP 2002-171518  
 15 <151> PRIOR FILING DATE: 2002-06-12  
 17 <150> PRIOR APPLICATION NUMBER: JP 2002-275572  
 18 <151> PRIOR FILING DATE: 2002-09-20  
 20 <160> NUMBER OF SEQ ID NOS: 68

## ERRORED SEQUENCES

970 <210> SEQ ID NO: 51  
 971 <211> LENGTH: 9  
 972 <212> TYPE: PRT  
 973 <213> ORGANISM: Artificial Sequence  
 975 <220> FEATURE:  
 976 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
 978 <400> SEQUENCE: 51  
 980 Ala Leu Leu Pro Ala Val Pro Ser Leu  
 E--> 981 1 5 5  
 984 <210> SEQ ID NO: 52  
 985 <211> LENGTH: 9  
 986 <212> TYPE: PRT  
 987 <213> ORGANISM: Artificial Sequence  
 989 <220> FEATURE:  
 990 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
 992 <400> SEQUENCE: 52  
 993 Asn Gln Met Asn Leu Gly Ala Thr Leu  
 E--> 994 1 5 5  
 997 <210> SEQ ID NO: 53  
 998 <211> LENGTH: 9  
 999 <212> TYPE: PRT  
 1000 <213> ORGANISM: Artificial Sequence  
 1002 <220> FEATURE:  
 1003 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
 1005 <400> SEQUENCE: 53  
 1006 Arg Phe Phe Pro Asn Ala Pro Tyr Leu  
 E--> 1007 1 5 5

Does Not Comply  
 Corrected Diskette Needed

pp 1-7

misaligned amino acid number  
 (see item 3 on Error  
 summary  
 sheet)

same error

same

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/517,600

DATE: 08/12/2005

TIME: 14:48:39

Input Set : A:\2005-06-22 - Sequence Listing.txt

Output Set : N:\CRF4\08122005\J517600.raw

1010 <210> SEQ ID NO: 54  
1011 <211> LENGTH: 9  
1012 <212> TYPE: PRT  
1013 <213> ORGANISM: Artificial Sequence  
1015 <220> FEATURE:  
1016 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1018 <400> SEQUENCE: 54  
1019 Arg Trp Phe Pro Asn Ala Pro Tyr Leu *same*  
E--> 1020 1 5  
1023 <210> SEQ ID NO: 55  
1024 <211> LENGTH: 9  
1025 <212> TYPE: PRT  
1026 <213> ORGANISM: Artificial Sequence  
1028 <220> FEATURE:  
1029 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1031 <400> SEQUENCE: 55  
1032 Arg Phe Pro Gly Val Ala Pro Thr Leu *same*  
E--> 1033 1 5  
1036 <210> SEQ ID NO: 56  
1037 <211> LENGTH: 9  
1038 <212> TYPE: PRT  
1039 <213> ORGANISM: Artificial Sequence  
1041 <220> FEATURE:  
1042 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1044 <400> SEQUENCE: 56  
1045 Arg Met Pro Gly Val Ala Pro Thr Leu *same*  
E--> 1046 1 5  
1049 <210> SEQ ID NO: 57  
1050 <211> LENGTH: 9  
1051 <212> TYPE: PRT  
1052 <213> ORGANISM: Artificial Sequence  
1054 <220> FEATURE:  
1055 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1057 <400> SEQUENCE: 57  
1058 Arg Trp Pro Gly Val Ala Pro Thr Leu *same*  
E--> 1059 1 5  
1062 <210> SEQ ID NO: 58  
1063 <211> LENGTH: 9  
1064 <212> TYPE: PRT  
1065 <213> ORGANISM: Artificial Sequence  
1067 <220> FEATURE:  
1068 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1070 <400> SEQUENCE: 58  
1071 Arg Phe Pro Ser Cys Gln Lys Lys Phe *same*  
E--> 1072 1 5  
1075 <210> SEQ ID NO: 59  
1076 <211> LENGTH: 9  
1077 <212> TYPE: PRT  
1078 <213> ORGANISM: Artificial Sequence

## RAW SEQUENCE LISTING

DATE: 08/12/2005

PATENT APPLICATION: US/10/517,600

TIME: 14:48:39

Input Set : A:\2005-06-22 - Sequence Listing.txt

Output Set: N:\CRF4\08122005\J517600.raw

1080 <220> FEATURE:  
1081 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1083 <400> SEQUENCE: 59  
1084 Arg Met Pro Ser Cys Gln Lys Lys Phe *same*  
E--> 1085 1 5  
1088 <210> SEQ ID NO: 60  
1089 <211> LENGTH: 9  
1090 <212> TYPE: PRT  
1091 <213> ORGANISM: Artificial Sequence  
1093 <220> FEATURE:  
1094 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1096 <400> SEQUENCE: 60  
1097 Ala Phe Leu Pro Ala Val Pro Ser Leu *same*  
E--> 1098 1 5  
1101 <210> SEQ ID NO: 61  
1102 <211> LENGTH: 9  
1103 <212> TYPE: PRT  
1104 <213> ORGANISM: Artificial Sequence  
1106 <220> FEATURE:  
1107 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1109 <400> SEQUENCE: 61  
1110 Ala Met Leu Pro Ala Val Pro Ser Leu *same*  
E--> 1111 1 5  
1114 <210> SEQ ID NO: 62  
1115 <211> LENGTH: 9  
1116 <212> TYPE: PRT  
1117 <213> ORGANISM: Artificial Sequence  
1119 <220> FEATURE:  
1120 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1122 <400> SEQUENCE: 62  
1123 Ala Trp Leu Pro Ala Val Pro Ser Leu *same*  
E--> 1124 1 5  
1127 <210> SEQ ID NO: 63  
1128 <211> LENGTH: 9  
1129 <212> TYPE: PRT  
1130 <213> ORGANISM: Artificial Sequence  
1132 <220> FEATURE:  
1133 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1135 <400> SEQUENCE: 63  
1136 Asn Phe Met Asn Leu Gly Ala Thr Leu *same*  
E--> 1137 1 5  
1140 <210> SEQ ID NO: 64  
1141 <211> LENGTH: 9  
1142 <212> TYPE: PRT  
1143 <213> ORGANISM: Artificial Sequence  
1145 <220> FEATURE:  
1146 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1148 <400> SEQUENCE: 64  
1149 Asn Met Met Asn Leu Gly Ala Thr Leu *same*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/517,600

DATE: 08/12/2005

TIME: 14:48:39

Input Set : A:\2005-06-22 - Sequence Listing.txt

Output Set: N:\CRF4\08122005\J517600.raw

E--> 1150 1 5  
1153 <210> SEQ ID NO: 65  
1154 <211> LENGTH: 9  
1155 <212> TYPE: PRT  
1156 <213> ORGANISM: Artificial Sequence  
1158 <220> FEATURE:  
1159 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1161 <400> SEQUENCE: 65  
1162 Asn Trp Met Asn Leu Gly Ala Thr Leu

E--> 1163 1 5 *same*  
1166 <210> SEQ ID NO: 66  
1167 <211> LENGTH: 9  
1168 <212> TYPE: PRT  
1169 <213> ORGANISM: Artificial Sequence  
1171 <220> FEATURE:  
1172 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1174 <400> SEQUENCE: 66  
1175 Arg Tyr Pro Ser Ser Gln Lys Lys Phe

E--> 1176 1 5 *same*  
1179 <210> SEQ ID NO: 67  
1180 <211> LENGTH: 9  
1181 <212> TYPE: PRT  
1182 <213> ORGANISM: Artificial Sequence  
1184 <220> FEATURE:  
1185 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1187 <400> SEQUENCE: 67  
1188 Arg Tyr Pro Ser Ala Gln Lys Lys Phe

E--> 1189 1 5 *same*  
1192 <210> SEQ ID NO: 68  
1193 <211> LENGTH: 9  
1194 <212> TYPE: PRT  
1195 <213> ORGANISM: Artificial Sequence  
1197 <220> FEATURE:  
1198 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic Peptide  
1199 <223> OTHER INFORMATION: Xaa at position 5 stands for Abu.

W--> 1201 <400> 68  
W--> 1202 Arg Tyr Pro Ser Xaa Gln Lys Lys Phe  
E--> 1203 1 *5 5*

*same**see p. 5*

charge to  
↓

10/512,600 5

<1507 <140> PCT/JP03/07463  
<1517 <141> 2003-06-12

These are prior data.

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/517,600

DATE: 08/12/2005  
TIME: 14:48:40

FWI

Input Set : A:\2005-06-22 - Sequence Listing.txt  
Output Set: N:\CRF4\08122005\J517600.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:33; Line(s) 527  
Seq#:34; Line(s) 603  
Seq#:35; Line(s) 709



VARIABLE LOCATION SUMMARY  
PATENT APPLICATION: US/10/517,600

7  
DATE: 08/12/2005  
TIME: 14:48:40

Input Set : A:\2005-06-22 - Sequence Listing.txt  
Output Set: N:\CRF4\08122005\J517600.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:68; Xaa Pos. 5

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/517,600

DATE: 08/12/2005

TIME: 14:48:40

Input Set : A:\2005-06-22 - Sequence Listing.txt

Output Set: N:\CRF4\08122005\J517600.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
 L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
 L:344 M:283 W: Missing Blank Line separator, <400> field identifier  
 L:981 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:51  
 L:994 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:52  
 L:1007 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:53  
 L:1020 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:54  
 L:1033 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:55  
 L:1046 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:56  
 L:1059 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:57  
 L:1072 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:58  
 L:1085 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:59  
 L:1098 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:60  
 L:1111 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:61  
 L:1124 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:62  
 L:1137 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:63  
 L:1150 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:64  
 L:1163 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:65  
 L:1176 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:66  
 L:1189 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:67  
 L:1201 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:68  
 L:1202 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:68  
 L:1202 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:68  
 L:1202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0  
 L:1203 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:68